

### **Listing of Claims:**

Please cancel claims 1-7 and add new claims 8-12.

1. - 7. (Canceled).

8. (New) A rectifier circuit matched for power factor correction, the circuit comprising:

a first diode, a second diode, a third diode and a fourth diode connected to form a bridge, the bridge having a first pole between the first and second diodes, a second pole between the third and fourth diodes, a third pole between the first and fourth diodes, and a fourth pole between the second and third diodes;

a source of AC voltage applied across the first and second poles;

an inductance coupled to one of the third and fourth poles;

wherein, with the first and fourth diodes being a first pair of diodes and the second and third diodes being a second pair of diodes, one of the first and second pairs of diodes is a pair of fast diodes; and

first and second capacitors connected in series between said first and second poles, and having a junction point therebetween, said junction point being connected to the one of the third pole and the fourth pole which lies between the pair of said first and second pair of diodes other than the pair of fast diodes.

9. (New) The rectifier circuit of claim 8, wherein

said first pair of diodes are fast diodes;

said inductance is coupled to said third pole; and

said fourth pole is connected to ground.

10. (New) The rectifier circuit of claim 8, wherein  
said second pair of diodes are fast diodes;  
said inductance is coupled to said third pole; and  
said fourth pole is connected to ground.

11. (New) The rectifier circuit of claim 8, wherein  
said first pair of diodes are fast diodes;  
said inductance is coupled to said fourth pole; and  
said fourth pole is connected to ground via said inductance.

12. (New) The rectifier circuit of claim 8, wherein  
said second pair of diodes are fast diodes;  
said inductance is coupled to said fourth pole; and  
said fourth pole is connected to ground via said inductance.